IN THE CLAIMS

(currently amended)An apparatus comprising:

a local area network operably coupled to at least one positron emission tomography imaging system;

a dispensing station to receive a multidose vial of a radiotracer, and to dispense portions doses of the radiotracer to a plurality of positron emission tomography (PET) imaging systems, the dispensing station being operably coupled to the local area network to send over the local area network information regarding the doses dispensed to the plurality of PET imaging systems; and

a control system operably coupled to the local area network and operable to receive status information from, and send commands to, to communicate with the plurality of positron emission tomography imaging systems and the dispensing station.

- 2. (currently amended)The apparatus of claim 1, further comprising a quality control unit to monitor the radionuclic and chemical purity of the radiotracer that is dispensed by the dispensing station, the quality control unit being operably coupled toconveying radiotracer quality information over the local area network—operably coupled to the control system and operably coupled to the dispensing station.
- (original)The apparatus of claim 1, wherein the local area network is further operably
 coupled to a radioisotope producer and wherein the dispensing station receives the radioisotope
 from the radioisotope producer.
- (original) The apparatus of claim 3, wherein the radioisotope producer further comprises a
 evelotron.
- (original)The apparatus of claim 3, wherein the radioisotope producer further comprises a linear accelerator.

 (original)The apparatus of claim 3, wherein the radioisotope producer further comprises a radioisotope generator.

- (currently amended)The apparatus of claim 1, wherein the apparatus further comprises
 being dispensing station is mounted on wheels to permit the dispensing station to be moved
 between the plurality of PET imaging systems.
- (original)The apparatus of claim 1, wherein a radioactivity shield surrounds portions of
 the apparatus that are radioactive.
- (original)The apparatus of claim 1, wherein the radiotracer further comprises nitrogen-13
 ammonia.
- (original)The apparatus of claim 1, wherein the radiotracer further comprises fluorodeoxyglucose.
- 11. (original)The apparatus of claim 1, wherein the at least one positron emission tomography imaging system further comprises a plurality of positron emission tomography imaging systems.
- 12. (original)The apparatus of claim 1, wherein each positron emission tomography imaging system further comprises:

a computer system having a graphical user interface operably coupled to the local area network;

an injector system to extract at least one individual dose from the radiotracer and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and

a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.

- 13. (original)The apparatus of claim 12, wherein the amount of each individual dose is calculated based on the radioactive half-life of the radiotracer, the projected time of injection into a living subject and high level descriptors of the living subject.
- 14. (original)The apparatus of claim 13, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- 15. (currently amended)The apparatus of claim 1, wherein the control system further comprises a computer systemfurther comprising delivery lines that couple the dispensing station to the plurality of PET imaging systems to transfer the doses to corresponding ones of the PET imaging systems.
- 16. (currently amended)A medical radiopharmaceutical administration system comprising:
- a local area network operably coupled to a plurality of positron emission tomography (<u>PET</u>) imaging systems and operably coupled to a radioisotope producer;
- a chemical synthesizer operably coupled to the radioisotope producer, to receive the radioisotope, and to produce a radiotracer;
- a dispensing station to receive from the chemical synthesizer a liquid radiotracer in quantities suitable for multiple doses of the radiopharmaceutical, and to dispense the radiopharmaceutical to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network and conveying information regarding the multiple doses over the local area network; and
- a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems and the dispensing station.
- 17. (currently amended)The medical radiopharmaceutical administration system of claim 16, further comprising a quality control unit to monitor the radionuclic and chemical purity of the radiopharmaceutical that is dispensed by the dispensing station, the quality control unit

conveying radiotracer quality information over being operably coupled to the local area networks operably coupled to the control system and operably coupled to the dispensing station.

- 18. (original)The medical radiopharmaceutical administration system of claim 16, wherein the radioisotope producer further comprises a cyclotron.
- (original)The medical radiopharmaceutical administration system of claim 16, wherein the radioisotope producer further comprises a linear accelerator.
- (original)The medical radiopharmaceutical administration system of claim 16, wherein
 the radioisotope producer further comprises a radioisotope generator.
- 21. (currently amended)The medical radiopharmaceutical administration system of claim 16, wherein the system further comprises beingdispensing station is mounted on wheels, the dispensing station being movable between the plurality of PET imaging systems.
- 22. (original)The medical radiopharmaceutical administration system of claim 16, wherein the radiotracer is selected from the group consisting of nitrogen-13 ammonia and fluorodeoxyglucose.
- 23. (original)The medical radiopharmaceutical administration system of claim 16, wherein the at least one positron emission tomography imaging system further comprises a plurality of positron emission tomography imaging systems.
- 24. (previously presented)The medical radiopharmaceutical administration system of claim 16, wherein each of the plurality of positron emission tomography imaging systems further comprises:

a computer system having a graphical user interface operably coupled to the local area network:

an injector system to extract at least one individual dose from the liquid radiopharmaceutical and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and

a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.

- 25. (original)The medical radiopharmaceutical administration system of claim 24, wherein the amount of each individual dose is calculated based on type of radiopharmaceutical, a predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- (previously presented)A portable medical radiopharmaceutical administration system comprising:

a local area network operably coupled to a plurality of positron emission tomography imaging systems;

a dispensing station to receive a liquid radiopharmaceutical in quantities suitable for multiple doses of the radiopharmaceutical, and to dispense the radiopharmaceutical to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network;

a quality control unit being operably coupled to the dispensing station;

a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit;

a radioactivity shield that surrounds portions of the medical radiopharmaceutical administration system that are radioactive; and

wheels mounted to the shield.

27. (original)The portable medical radiopharmaceutical administration system of claim 26, wherein the portions of the system that are radioactive further comprise the dispensing station and the quality control unit.

28. (original)The portable medical radiopharmaceutical administration system of claim 26, wherein the local area network is further operably coupled to a radioisotope producer and wherein the dispensing station receives the liquid radiopharmaceutical from the radioisotope producer.

- (original)The portable medical radiopharmaceutical administration system of claim 28, wherein the radioisotope producer further comprises a cyclotron.
- (original)The portable medical radiopharmaceutical administration system of claim 28, wherein the radioisotope producer further comprises a linear accelerator.
- (original)The portable medical radiopharmaceutical administration system of claim 28, wherein the radioisotope producer further comprises a radioisotope generator.
- (original)The portable medical radiopharmaceutical administration system of claim 26, wherein the radiopharmaceutical is selected from the group consisting of nitrogen-13, fluorine-18, carbon-11, oxygen-15 and rubidium-82.
- 33. (previously presented)The portable medical radiopharmaceutical administration system of claim 26, wherein each of the plurality of positron emission tomography imaging systems further comprises:
- a computer system having a graphical user interface operably coupled to the local area network;
- an injector system to extract at least one individual dose from the liquid radiopharmaceutical and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and
- a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.
- 34. (original)The portable medical radiopharmaceutical administration system of claim 33, wherein the amount of each individual dose is calculated based on type of radiopharmaceutical, a

predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.

- 35. (currently amended)A medical radiopharmaceutical administration system comprising:
- a local area network operably coupled to a plurality of positron emission tomography imaging systems;
- a dispensing station to receive a nitrogen-13 ammonia in quantities suitable for multiple doses of the nitrogen-13 ammonia, and to dispense the nitrogen-13 ammonia to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network:
- a quality control unit to monitor the amount of radiochemical and the radionuclic purity of the nitrogen-13 ammonia that is dispensed by the dispensing station, the quality control unit being operably coupled to the local area network and operably coupled to the dispensing station to convey quality information over the local area network; and
- a control system operably coupled to the local area network, to receive status information from, and send commands-to-communicate with the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit.
- 36. (original)The medical radiopharmaceutical administration system of claim 35, wherein the local area network is further operably coupled to a radioisotope producer selecting from the group consisting of a cyclotron, and a linear accelerator, and wherein the dispensing station receives the nitrogen-13 ammonia from the radioisotope producer.
- 37. (original)The medical radiopharmaceutical administration system of claim 35, wherein the system further comprises being mounted on wheels.
- 38. (previously presented)The medical radiopharmaceutical administration system of claim
- 35, wherein the plurality of positron emission tomography imaging systems further comprises a

plurality of positron emission tomography imaging systems, and wherein each of the plurality of positron emission tomography imaging systems further comprises:

a computer system having a graphical user interface operably coupled to the local area network:

an injector system to extract at least one individual dose from the nitrogen-13 ammonia and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and

- a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.
- 39. (original)The medical radiopharmaceutical administration system of claim 38, wherein the amount of each individual dose is calculated based on a predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- (currently amended) A medical radiopharmaceutical administration system comprising:
- a local area network operably coupled to a plurality of positron emission tomography imaging systems;
- a dispensing station to receive liquid fluorodeoxyglucose in quantities suitable for multiple doses of the liquid fluorodeoxyglucose, and to dispense the fluorodeoxyglucose to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network to send over the local area network information regarding the doses dispensed to the plurality of PET imaging systems; and
- a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit.

41. (original)The medical radiopharmaceutical administration system of claim 40, wherein the local area network is further operably coupled to a cyclotron and wherein the dispensing station receives the liquid fluorodeoxyglucose.

- (currently amended)The medical radiopharmaceutical administration system of claim 40, wherein the system further comprises being dispensing station is mounted on wheels.
- 43. (previously presented)The medical radiopharmaceutical administration system of claim 40, wherein the plurality of positron emission tomography imaging systems further comprises a plurality of positron emission tomography imaging systems, and wherein each of the plurality of positron emission tomography imaging systems further comprises:

a computer system having a graphical user interface operably coupled to the local area network;

an injector system to extract at least one individual dose from the liquid fluorodeoxyglucose and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and

a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.

- 44. (original)The medical radiopharmaceutical administration system of claim 43, wherein the amount of each individual dose is calculated based on a predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- 45. (currently amended)A medical radiopharmaceutical administration system comprising:

a local area network operably coupled to a plurality of positron emission tomography (PET) imaging systems;

a dispensing station to receive a liquid radiotracer in quantities suitable for multiple doses of a radiopharmaceutical, and to dispense the radiopharmaceutical to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network to send over the local area network information regarding the doses dispensed to the plurality of PET imaging systems;

a quality control unit to monitor the amount of radio and the radionuclic purity of the radiopharmaceutical that is dispensed by the dispensing station, the quality control unit being operably coupled to the local area network and operably coupled to the dispensing station; and

a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit.

- 46. (original)The medical radiopharmaceutical administration system of claim 45, wherein the local area network is further operably coupled to a cyclotron and wherein the dispensing station receives the liquid radiopharmaceutical from the cyclotron.
- (currently amended)The medical radiopharmaceutical administration system of claim 45,
 wherein the system further comprises being dispensing station is mounted on wheels.
- 48. (original)The medical radiopharmaceutical administration system of claim 45, wherein a radioactivity shield surrounds portions of the system that are radioactive.
- (original)The medical radiopharmaceutical administration system of claim 45, wherein the radiotracer further comprises nitrogen-13 ammonia.
- 50. (original)The medical radiopharmaceutical administration system of claim 45, wherein the radiotracer further comprises fluorodeoxyglucose.
- 51. (original)The medical radiopharmaceutical administration system of claim 45, wherein each of the plurality of positron emission tomography imaging systems further comprises:

a computer system having a graphical user interface operably coupled to the local area network:

- an injector system to extract at least one individual dose from the liquid radiopharmaceutical and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and
- a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.
- 52. (original)The medical radiopharmaceutical administration system of claim 51, wherein the amount of each individual dose is calculated based type of radiopharmaceutical, a predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject.
- 53. (original)The medical radiopharmaceutical administration system of claim 52, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- 54. (original)The medical radiopharmaceutical administration system of claim 45, further comprising a chemical synthesizer operably coupled to the dispensing station, to receive a radioisotope, and to produce a radiotracer, and to transfer the radiotracer to the dispensing station.
- 55. (currently amended)A radiopharmaceutical administration system comprising:
- a local area network operably coupled to a plurality of positron emission tomography (PET) imaging systems;
- a dispensing station to receive a liquid radiopharmaceutical in quantities suitable for multiple doses of the radiopharmaceutical, and to dispense the radiopharmaceutical to the plurality of positron emission tomography imaging systems, the dispensing station being

operably coupled to the local area network to send over the local area network information regarding the doses dispensed to the plurality of PET imaging systems;

a quality control unit, to monitor the amount of radiochemical and the radionuclic purity of the radiopharmaceutical that is dispensed by the dispensing station, the quality control unit being operably coupled to the local area network and operably coupled to the dispensing stationto send quality information over the local area network; and

a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit,

wherein each of the plurality of positron emission tomography imaging systems further comprises:

- a computer system having a graphical user interface operably coupled to the local area network:
- an injector system to extract at least one individual dose from the liquid radiopharmaceutical and to inject the at least one individual dose into the living subject, the injector system being operably coupled to the local area network; and
- a physiologic monitoring system operably coupled to the injector system and operably coupled to the living subject.
- 56. (original)The radiopharmaceutical administration system of claim 55, wherein the local area network is further operably coupled to a cyclotron and wherein the dispensing station receives the liquid radiopharmaceutical from the cyclotron.
- 57. (currently amended)The radiopharmaceutical administration system of claim 55, wherein the system further comprises being dispensing station is mounted on wheels.

58. (original)The radiopharmaceutical administration system of claim 55, wherein the radiotracer further comprises being selected from the group consisting of nitrogen-13 ammonia and fluorodeoxyglucose.

- 59. (original)The radiopharmaceutical administration system of claim 55, wherein the amount of each individual dose is calculated based on type of radiopharmaceutical, a predefined parametric equation, clinical protocol being followed and high level descriptors of the living subject.
- 60. (original)The radiopharmaceutical administration system of claim 59, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the living subject.
- 61. (currently amended)A medical radiopharmaceutical administration system comprising:
- a local area network operably coupled to a plurality of positron emission tomography (PET) imaging systems;
- a dispensing station to receive a liquid radiopharmaceutical in quantities suitable for multiple doses of the radiopharmaceutical, and to dispense the radiopharmaceutical to the plurality of positron emission tomography imaging systems, the dispensing station being operably coupled to the local area network to send over the local area network information regarding the doses dispensed to the plurality of Pet imaging systems;
- a quality control unit, to monitor the amount of radiochemical and the radionuclic purity of the radiopharmaceutical that is dispensed by the dispensing station, the quality control unit being operably coupled to the local area network and operably coupled to the dispensing station; and
- a control system operably coupled to the local area network, to receive status information from, and send commands to, the plurality of positron emission tomography imaging systems, the dispensing station, and the quality control unit,

wherein each of the plurality of positron emission tomography imaging systems further comprises:

a computer system having a graphical user interface operably coupled to the local area network:

an injector system to extract at least one individual dose from the liquid radiopharmaceutical and to inject the at least one individual dose into the patient, the injector system being operably coupled to the local area network; and

a physiologic monitoring system operably coupled to the injector system and operably coupled to the patient.

- 62. (original)The medical radiopharmaceutical administration system of claim 61, wherein the local area network is further operably coupled to a cyclotron and wherein the dispensing station receives the liquid radiopharmaceutical from the cyclotron.
- 63. (previously presented)The medical radiopharmaceutical administration system of claim 61, wherein the radiopharmaceutical is selected from a group consisting of nitrogen-13, fluorine-18, carbon-11, oxygen-15 and rubidium-82.
- 64. (original)The medical radiopharmaceutical administration system of claim 61, wherein the amount of each individual dose is calculated based on type of radiopharmaceutical, a predefined parametric equation, clinical protocol being followed and high level descriptors of the patient, and wherein the high level descriptors of the patient further comprise the weight, sex and physical dimensions of the patient.

65. (currently amended)A system comprising:

a local area network operably coupled to a plurality of positron emission tomography (PET) imaging systems;

apparatus operable to dispense a radiopharmaceutical to the plurality of positron emission tomography (PET) imaging systems, the apparatus operable to dispense being operably coupled

to the local area network to send over the local area network information regarding the doses dispensed to the plurality of PET imaging systems;

apparatus operable to monitor the quality of the radiopharmaceutical that is dispensed by the apparatus operable to dispense, the apparatus operable to monitor being operably coupled to the local area network and operably coupled to the apparatus operable to dispense;

apparatus operable to receive status information from the plurality of positron emission tomography imaging systems, the apparatus operable to dispense, and the apparatus operable to monitor, the apparatus operable to receive being operably coupled to the local area network; and

apparatus operable to send commands to the plurality of positron emission tomography imaging systems, the apparatus operable to dispense and the apparatus operable to monitor, the apparatus operable to send being operably coupled to the local area network.

66. (currently amended)An apparatus comprising:

a computer system having a graphical user interface;

a dispensing station operable to extract individual doses from a multidose vial of a radiopharmaceutical and operably-coupled-dispense the individual doses to a plurality of positron emission tomography (PET) imaging systems;

an injector operable to inject the individual doses into a patient, the injector system being operably coupled to the computer system; and

a plurality of delivery lines interconnected between the dispensing station and the plurality of PET imaging systems, the computer system controlling dispensing of the individual doses over the delivery lines to the plurality of PET imaging systems—physiologic—monitoring system operably coupled to the injector system and operably coupled to the patient.

67. (original)The apparatus of claim 66, wherein the computer system receives data from the physiologic monitoring system, the injector system, a keyboard and the graphical user interface, and sends commands to the injector system.

68. (original)The apparatus of claim 66, wherein the amount of each individual dose is calculated based on the radioactive half-life of the radiopharmaceutical, the projected time of injection into a living subject and high level descriptors of the patient.

- (original)The apparatus of claim 66, wherein the high level descriptors of the living subject further comprise the weight, sex and physical dimensions of the patient.
- (currently amended)A positron emission tomography imaging system comprising:
 an injector:
- a dispensing station operable to extract individual doses of a radiopharmaceutical and distribute each individual dose to the injector and operably coupled to a plurality of positron emission tomography imaging systems, the dispensing station being mounted on wheels to be movable between the plurality of PET imaging systems;
 - a physiologic monitor operably coupled to the injector; and
- a positron emission tomography scanner operably coupled to the physiologic monitor and the injector.
- (original)The positron emission tomography imaging system of claim 70, wherein the injector is operable to inject individual doses of a radiopharmaceutical into a patient.
- 72. (original)The positron emission tomography imaging system of claim 70, wherein the radiotracer further comprises nitrogen-13 ammonia.
- 73. (original)The positron emission tomography imaging system of claim 70, wherein the radiotracer further comprises fluorodeoxyglucose.
- 74. (original)The positron emission tomography imaging system of claim 70, wherein the physiologic monitor is operably to monitor blood pressure and heart activity.
- 75. (original)The positron emission tomography imaging system of claim 70, wherein the operable coupling is provided by a local area network.

76. (original)The positron emission tomography imaging system of claim 70, further comprising a computer system operably coupled to the local area network, to control dispensing and injection of an individual dose of a radiopharmaceutical into a living subject and to control radiological scanning of the living subject.

- 77. (cancelled)
- 78. (cancelled)
- 79. (cancelled)
- 80. (cancelled)
- (cancelled)
- 82. (cancelled)
- 83. (cancelled)
- 84. (cancelled)
- 85. (cancelled)
- 86. (new) A portable medical radiopharmaceutical administration system comprising:

a moveable structure mounted on wheels to be moveable between a plurality of positron emission tomography imaging systems, the moveable structure including radioactivity shielding;

- a multi-dose container to hold a multi-dose quantity of liquid radiopharmaceutical;
- a dispensing station to receive the multi-dose quantity of radiopharmaceutical and to dispense doses of the radiopharmaceutical at the plurality of positron emission tomography imaging systems; and
- a dose calibrator to measure a radioactivity of at least one dose prior to injection, the multi-dose container and dispensing station being coupled to one another through a liquid

transfer line, the multi-dose container, dispensing station, dose calibrator and liquid transfer line being enclosed within the radioactivity shielding on the moveable structure.

- (new) The portable system of claim 86, wherein the dose calibrator verifies an adequacy
 of the dose prior to injection.
- 88. (new) The portable system of claim 86, wherein the dose calibrator calculates a dosage for an individual dose based on at least one of a half-life of the pharmaceutical and a weight of the living subject.
- 89. (new) The portable system of claim 86, wherein the dispensing station includes an extractor to extract the doses from the multi-dose container holding the multi-dose quantity, the dose calibrator to measure the radioactivity of the doses when extracted.
- 90. (new) The portable system of claim 86, further comprising a computer system to calculate an individual dose based on at least one of a weight and sex of a living subject, wherein the dispensing station comprises an extractor that extracts an amount of the radiopharmaceutical corresponding to the individual dose of the radiopharmaceutical.
- 91. (new) The portable system of claim 86, further comprising a computer system having a graphical user interface operably coupled to the dispensing station and dose calibrator, the computer system recording the doses delivered to living subjects.
- 92. (new) The portable system of claim 86, further comprising a computer system having a graphical user interface operably coupled to the dispensing station and dose calibrator, the computer system calculating an individual dose based on a weight of the living subject.
- 93. (new) The portable system of claim 92, wherein the computer system calculates an amount of dose radioactivity for the individual dose, the dispensing station comprising an extractor that extracts an amount of the radiopharmaceutical from the multidose container until the dose calibrator measures an amount of extracted radioactivity that corresponds to the amount of dose radioactivity calculated by the computer system.

94. (new) The portable system of claim 86, further comprising a computer system having a graphical user interface operably coupled to the dispensing station and dose calibrator, the computer system storing at least one of dosing data and an initial dose activity at an initial time.

- 95. (new) The portable system of claim 86, further comprising a quality control unit provided within the radioactivity shielding on the moveable structure, the quality control unit being operably coupled to the dispensing station, the quality control unit monitoring a radioactivity of the liquid radiopharmaceutical prior to being dispensed by the dispensing station.
- 96. (new) The portable system of claim 86, wherein the quality control unit monitors at least one of an amount, quality and quantity of the radioactivity.
- 97. (new) The portable system of claim 86, wherein the quality control unit performs the monitoring at particular time intervals.
- 98. (new) The portable system of claim 86, wherein the quality control unit performs the monitoring for a production batch of the radiopharmaceutical.
- 99. (new) The portable system of claim 86, wherein the quality control unit calculates an amount of radioactivity based on at least one of a half-life of the radiopharmaceutical and an amount of time lapsed since production of the radiopharmaceutical.
- 100. (new) The portable system of claim 86, further comprising a communications device provided on the moveable structure to communicate over a link with a remote computer, the communications device conveying at least one of status information, commands, dosage information, and dose production information.
- 101. (new) The portable system of claim 86, wherein the liquid transfer line is lead-shielded.
- 102. (new) The portable system of claim 86, wherein the dose calibrator is located within the dispensing station.